This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method comprising a receiving device performing the steps of: receiving a transmitted multi-carrier signal comprising a plurality of sub-channels, wherein each sub-channel of the plurality of sub-channels occupies a discrete frequency band;

operating in a first decoding mode to decode one or more sub-channels of the plurality of sub-channels, thereby yielding control information; and

if the control information includes indicia of payload directed to the receiving device, operating in a second decoding mode to decode one or more additional sub-channels of the plurality of sub-channels, thereby yielding payload information.

- 2. (currently amended) The method of claim 1, wherein in the first decoding mode, the receiving device decodes payload sub-channels that include the one or more sub-channels of the plurality of sub-channels, thereby further yielding the control payload information.
- 3. (currently amended) The method of claim 1, wherein in the first decoding mode, the receiving device decodes only designated control sub-channels the one or more sub-channels of the plurality of sub-channels which yield control information.
- 4. (currently amended) The method of claim 3, wherein in the second decoding mode, the receiving device decodes the <u>one or more sub-channels of the plurality of sub-channels which yields control information control sub-channels</u> and the one or more additional sub-channels <u>of the plurality of sub-channels which yield payload information</u>.

5. (currently amended) In a wireless communication system adapted for communicating information in M sub-channels spanning a bandwidth B_M, a A method comprising: a sending device performing the steps of:

wherein each sub-channel of the M sub-channels occupies a discrete frequency band; and

sending transmitting control information, from a sending device to a receiving device, in one or more control sub-channels of the M sub-channels occupying a first portion of the bandwidth β_M .

- 6. (currently amended) The method of claim 5, wherein the sending device is a base station and the <u>a</u> receiving device is a radio communication unit.
- 7. (currently amended) The method of claim 5, further comprising:

 decoding, by the <u>a</u> receiving device, the control sub-channels to receive the control information.
- 8. (original) The method of claim 7, wherein the step of decoding the control subchannels comprises the receiving device decoding only the control sub-channels.
- 9. (currently amended) The method of claim 5, further comprising, upon the sending device having payload information directed to the <u>a</u> receiving device:

sending the payload information to the receiving device in one or more payload subchannels of the M sub-channels occupying a second portion of the bandwidth B_M .

- 10. (original) The method of claim 9, further comprising:
 decoding, by the receiving device, the payload sub-channels to receive the payload information.
- 11. (original) The method of claim 10, wherein the step of decoding the payload subchannels comprises the receiving device decoding the full bandwidth $B_{\rm M}$.

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12. (currently amended) The method of claim 9 wherein, prior to sending the payload information, the sending device performs the steps of:

sending, via the control <u>sub-</u>channels, a message informing the receiving device to decode at least the one or more payload sub-channels to receive the payload information.

13. (currently amended) The method of claim 5, further comprising, upon the sending device having payload information directed to the <u>a</u> receiving device:

determining, by the sending device, if the payload information can be communicated via the control sub-channels; and

if the payload information can be communicated via the control sub-channels, sending the payload information to the receiving device via the one or more control sub-channels.

14. (original) The method of claim 13, further comprising: decoding, by the receiving device, the control sub-channels to receive the payload

- 15. (original) The method of claim 14, wherein the step of decoding the control sub-channels comprises the receiving device decoding only the control sub-channels.
- 16. (original) The method of claim 13, comprising, if the payload information can not be communicated via the control sub-channels,

sending the payload information to the receiving device in one or more payload subchannels of the M sub-channels occupying a second portion of the bandwidth B_M .

- 17. (original) The method of claim 16, further comprising:
 decoding, by the receiving device, the payload sub-channels to receive the payload information.
- 18. (original) The method of claim 17, wherein the step of decoding the payload subchannels comprises the receiving device decoding the full bandwidth B_M .

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information.

19. (currently amended) The method of claim 16 wherein, prior to sending the payload information, the sending device performs the steps of:

sending, via the control <u>sub-</u>channels, a message informing the receiving device to decode the one or more payload sub-channels to receive the payload information.

20. (currently amended) A communication device comprising:

an antenna for receiving a transmitted <u>multi-carrier</u> signal comprising M sub-channels, wherein each sub-channel of the M sub-channels occupies a discrete frequency band; and

a decoding element for independently decoding each of the M sub-channels, the decoding element being operable in a first decoding mode to decode one or more control sub-channels of the M sub-channels and in a second decoding mode to decode one or more payload sub-channels of the M sub-channels.

/ 21. (original) The communication device of claim 20, wherein in the first decoding mode, the decoding element decodes only the control sub-channels.

22. (original) The communication device of claim 20, wherein in the second decoding mode, the decoding element decodes the control sub-channels and the payload sub-channels.

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